PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file	reference		N. Marine		
100883-1 WO		FURTHER ACTION See Notification of Transmittal of international Preliminary Examination Report (Form PCT/IPEA/416)			
International application PCT/SE 03/01707	No. International of 05.11.2003	filing date <i>(day/month/y</i> 3	Priority date (day/month/year) 07.11.2002		
International Patent Classification (IPC) or both national classification and IPC					
C07D295/155					
Applicant ASTRAZENECA AB	et al.				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 					
2. This REPORT of	onsists of a total of 5 sheets, in	aluding this cover ch	and the same of th		
2. HISTILFORT C	misists of a total of 5 streets, iff	cluding this cover sr	1 001.		
j been amen	is also accompanied by ANNE ded and are the basis for this r 70.16 and Section 607 of the Ac	eport and/or sheets o	he description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).		
	consist of a total of sheets.				
3. This report conta	ins indications relating to the fo	llowing items:			
	of the opinion	3			
II □ Priori	•				
III ⊠ Non-e	stablishment of opinion with re	gard to novelty, inve	entive step and industrial applicability		
—	of unity of invention	•	. ,		
V ⊠ Reas citatio	oned statement under Rule 66. ons and explanations supporting	2(a)(ii) with regard to g such statement	o novelty, inventive step or industrial applicability;		
	in documents cited				
VII □ Certa	in defects in the international a	pplication			
VIII □ Certa	in observations on the internati	onal application			
Date of submission of the demand Date of completion of this report					
14.05.2004		03.12.20	004		
Name and malling address	s of the international	Authorized	Officer		
preliminary examining au European i	tnority: Patent Office		September 1997.		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE 03/01707

•	Racie	of the	report
1.	Dasis	OI HIE	IEDUIL

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages					
1-58			as published			
	Ola:	tura Normaliana				
	Ciai	ms, Numbers				
	1-15	5	as published			
2.	With regard to the language , all the elements marked above were available or furnished to this Authority i language in which the international application was filed, unless otherwise indicated under this item.					
	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of publ	ication of the international application (under Rule 48.3(b)).			
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).				
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
	rnational application in written form.					
filed together with the international application in computer readable form.						
	☐ furnished subsequently to this Authority in written form.					
	☐ furnished subsequently to this Authority in computer readable form.					
The statement that the subsequently furnished written sequence listing does not go beyond the disclesion in the international application as filed has been furnished.						
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.			
4.	4. The amendments have resulted in the cancellation of:					
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			
5.		This report has been been considered to	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).			
		(Any replacement streport.)	neet containing such amendments must be referred to under item 1 and annexed to this			
6.	Additional observations if necessary:					

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III. Non-establishment of opinion with regard to novelty, inventive	ve step and i	industrial applic	ability
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۱.		ovious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,				
☑ claims Nos. 9-11						
		because:				
the said international application, or the said claims Nos. 9-11 relate to the following subject matte does not require an international preliminary examination (specify):						
see separate sheet						
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinic could be formed.				
no international search report has been established for the said claims Nos.			ed for the said claims Nos.			
2.	or a	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and r amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative estructions:				
		the written form has not been furnished or does not comply with the Standard.				
		the computer readable form has not been furnished or does not comply with the Standard.				
۷.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Sta	tement				
	Nov	velty (N)	Yes: No:	Claims Claims	1-15	
	inve	entive step (IS)	Yes: No:	Claims Claims	1-15	
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-8, 12-15	
2.	Cita	ations and explanations				

see separate sheet

INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPARATE SHEET

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1= WO-A-93 15062 D2= WO-A-02 094794

item III

For the assessment of the present claims 7-9 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

item V

1. <u>Novelty</u> (Art. 33(2) PCT)

Document D1 discloses compounds of general formula IV, from which the presently claimed compounds differ in that they carry a group $-N(R^2)-C(O)-O-R^3$ whereas compounds IV according to D1 require a group -OH, NH_2 , $-CH_2OH$ and derivatives thereof in the same position (substituent Z) (D1: p. 33). Novelty for the subject-matter of present claim 1 can thus be acknowledged. The same applies for independent claims 6-8 and 12-15 as well as the dependent claims. The application thus fulfils the requirements of Art. 33(2) PCT.

2. <u>Inventive step</u> (Art. 33(3) PCT)

It would appear that document D2 does not disclose a teaching for the skilled person to amend compounds disclosed therein according to present claim 1 in order to solve the technical problem of providing 4-(phenyl-piperazinyl-methyl) benzamide derivatives as

ligands for delta receptor. Presence of an inventive step can thus be acknowledged as well (Art. 33(3) PCT).

3. Industrial applicability (Art. 33(4) PCT)

Can be acknowledged for claims 1-8 and 9-15.

4. Document D2 was published after the priority date of the present application but before its international filing date. Its content would be considered as forming part of the state of the art if the priority of the present application was found to be invalid. When entering the regional european phase, the said dicument will also be considered for the question of novelty in case the priority is validly claimed.